

APPR	REVISED	DATE
REVISIONS		

CITY OF FREMONT
STANDARD DETAILS
CITY STANDARD
IRRIGATION MASTER VALVE
AND FLOW SENSOR

DATE APPROVED BY CITY COUNCIL
04/11/06

RESOLUTION NO. 2006-31

CITY ENGINEER

RECTANGULAR PLASTIC VALVE BOX W/
PLASTIC LID. SECURE LID WITH $\frac{3}{8}$ " INCH
DIAMETER STAINLESS STEEL MACHINE BOLT
AS COORDINATED WITH MANUF. TOP OF LID
SHALL BE STENCILED WHITE: "RCV"

SCH. 80 PVC
THREADED UNION

MASTER CONTROL
VALVE WITH FLOW
SENSOR & MANUAL
BLEED

BRASS BALL VALVE
FINISH GRADE

REFERS TO
LSD-14 FOR DEPTH
4-INCH MINIMUM DEPTH OF 3/4-INCH
WASHED GRAVEL.

SCHEDULE 80 PVC
NIPPLES (TBE) AND
45 DEGREE THREADED
ELBOWS.

SCH. 80 MALE ADAPTER
PVC MAIN LINE

RECTANGULAR PLASTIC VALVE BOX WITH PLASTIC LID.
SECURE LID WITH 3/8" Ø STAINLESS STEEL MACHINE BOLT AS
COORDINATED WITH MANUF. TOP OF LID SHALL BE
STENCILED WHITE: "RCV"

ALL MODELS OF CALSENSE
CONTROLLERS REFER TO
CONTROLLER DETAIL

WATERPROOF ELECTRICAL CONNECTORS
(DO NOT USE PRE-FILLED TYPE
CONNECTORS)

CALSENSE MODEL #FM
FLOW SENSOR-WIRE TO
CONTROLLER AS DIRECTED
BY MANUFACTURER'S
REPRESENTATIVE

FINISHED
GRADE

BLACK
WIRE
HARNESS
Red
Black
Blue
White

4 INCH MINIMUM
DEPTH OF $\frac{3}{4}$ " INCH
WASHED GRAVEL

SCH. 80 PVC
45 DEGREE ELBOW

PVC MAINLINE

MINIMUM DOWNSTREAM DISTANCE
5 x FLOW METER SIZE (SEE CHART)

COMMON BRICK
(1 AT EACH CORNER)

MINIMUM UPSTREAM DISTANCE
10 x FLOW METER SIZE (SEE CHART)

COMMON BRICK
(1 AT EACH CORNER)

Pipe Sizing Chart			
Flow Meter Size	Upstream Length	Downstream Length	
1"	10"	12.5"	5"
1.25"	12.5"	15"	6.25"
1.5"	15"	20"	7.5"
2"	20"	30"	10"
3"	30"	30"	15"

- NOTES:
1. DISTANCE BETWEEN MASTER CONTROL VALVE AND FLOW SENSOR, FLOW SENSOR AND FIRST DOWNSTREAM ELBOW SHALL BE PER MANUFACTURER'S RECOMMENDATIONS
 2. ALL BOXES SHALL BE CARSON 1324 OR APPROVED EQUAL.
 3. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
LSD-24.DWG	3/4" = 1'-0"	AK/MM	RER	NOV. 2005	LSD-24	1 of 1